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<110> DIXON, JANE
MCKINNON, DAVID

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Thr His Asn Val Thr Glu Lys Val Thr Gln Val Leu Ser Leu Gly Ala			375		380	
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Asp Val Leu Pro Glu Tyr Lys Leu Gln Ala Pro Arg Ile His Arg Trp			390		395	400
	385					
Thr Ile Leu His Tyr Ser Pro Phe Lys Ala Val Trp Asp Trp Leu Ile						
	405		410			415
Leu Leu Leu Val Ile Tyr Thr Ala Val Phe Thr Pro Tyr Ser Ala Ala						
	420		425		430	
Phe Leu Leu Lys Glu Thr Glu Asp Gly Ser Gln Ala Pro Asp Cys Gly			440		445	
	435					
Tyr Ala Cys Gln Pro Leu Ala Val Val Asp Leu Leu Val Asp Ile Met			455		460	
	450					
Phe Ile Val Asp Ile Leu Ile Asn Phe Arg Thr Thr Tyr Val Asn Ala			470		475	480
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Asn Glu Glu Val Val Ser His Pro Gly Arg Ile Ala Val His Tyr Phe			485		490	495
Lys Gly Trp Phe Leu Ile Asp Met Val Ala Ala Ile Pro Phe Asp Leu						
	500		505			510
Leu Ile Phe Gly Ser Gly Ser Glu Glu Leu Ile Gly Leu Leu Lys Thr						
	515		520		525	
Ala Arg Leu Leu Arg Leu Val Arg Val Ala Arg Lys Leu Asp Arg Tyr						

530					535					540					
Ser	Glu	Tyr	Gly	Ala	Ala	Val	Leu	Phe	Leu	Leu	Met	Cys	Thr	Phe	Ala
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Leu	Ile	Ala	His	Trp	Leu	Ala	Cys	Ile	Trp	Tyr	Ala	Ile	Gly	Asn	Met
				565					570					575	
Glu	Gln	Pro	His	Met	Asp	Ser	His	Ile	Gly	Trp	Leu	His	Asn	Leu	Gly
			580					585					590		
Asp	Gln	Ile	Gly	Lys	Pro	Tyr	Asn	Ser	Ser	Gly	Leu	Gly	Gly	Pro	Ser
		595					600					605			
Ile	Lys	Asp	Lys	Tyr	Val	Thr	Ala	Leu	Tyr	Phe	Thr	Phe	Ser	Ser	Leu
	610					615					620				
Thr	Ser	Val	Gly	Phe	Gly	Asn	Val	Ser	Pro	Asn	Thr	Asn	Ser	Glu	Lys
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Ile	Phe	Ser	Ile	Cys	Val	Met	Leu	Ile	Gly	Ser	Leu	Met	Tyr	Ala	Ser
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Ile	Phe	Gly	Asn	Val	Ser	Ala	Ile	Ile	Gln	Arg	Leu	Tyr	Ser	Gly	Thr
			660					665					670		
Ala	Arg	Tyr	His	Thr	Gln	Met	Leu	Arg	Val	Arg	Glu	Phe	Ile	Arg	Phe
		675					680					685			
His	Gln	Ile	Pro	Asn	Pro	Leu	Arg	Gln	Arg	Leu	Glu	Glu	Tyr	Phe	Gln
	690					695					700				
His	Ala	Trp	Ser	Tyr	Thr	Asn	Gly	Ile	Asp	Met	Asn	Ala	Val	Leu	Lys
705					710					715					720
Gly	Phe	Pro	Glu	Cys	Leu	Gln	Ala	Asp	Ile	Cys	Leu	His	Leu	Asn	Arg
				725					730					735	
Ser	Leu	Leu	Gln	His	Cys	Lys	Pro	Phe	Arg	Gly	Ala	Thr	Lys	Gly	Cys
			740					745					750		
Leu	Arg	Ala	Leu	Ala	Met	Lys	Phe	Lys	Thr	Thr	His	Ala	Pro	Pro	Gly
		755					760					765			
Asp	Thr	Leu	Val	His	Ala	Gly	Asp	Leu	Leu	Thr	Ala	Leu	Tyr	Phe	Ile
	770					775					780				
Ser	Arg	Gly	Ser	Ile	Glu	Ile	Leu	Arg	Gly	Asp	Val	Val	Val	Ala	Ile
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			805						810					815	
Pro	Gly	Lys	Ser	Asn	Gly	Asp	Val	Arg	Ala	Leu	Thr	Tyr	Cys	Asp	Leu
			820					825					830		
His	Lys	Ile	His	Arg	Asp	Asp	Leu	Leu	Glu	Val	Leu	Asp	Met	Tyr	Pro

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Glu	Phe	Ser	Asp	His	Phe	Trp	Ser	Ser	Leu	Glu	Ile	Thr	Phe	Asn	Leu
	850					855					860				
Arg	Asp	Thr	Asn	Met	Ile	Pro	Gly	Ser	Pro	Ser	Ser	Ala	Glu	Leu	Glu
865					870					875					880
Ser	Gly	Phe	Asn	Arg	Gln	Arg	Lys	Arg	Lys	Leu	Ser	Phe	Arg	Arg	Arg
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Gly	Pro	Ala	Arg	Val	Gly	Pro	Gly	Pro	Ser	Cys	Arg	Gly	Gln	Pro	Gly
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	930					935					940				
Ser	Glu	Asp	Glu	Gly	Pro	Gly	Arg	Ser	Ser	Ser	Pro	Leu	Arg	Leu	Val
945					950					955					960
Pro	Phe	Ser	Ser	Pro	Arg	Pro	Pro	Gly	Asp	Ser	Pro	Gly	Gly	Glu	Pro
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Leu	Thr	Glu	Asp	Gly	Glu	Lys	Ser	Ser	Asp	Thr	Cys	Asn	Pro	Leu	Ser
			980					985					990		
Gly	Ala	Phe	Ser	Gly	Val	Ser	Asn	Ile	Phe	Ser	Phe	Trp	Gly	Asp	Ser
		995					1000					1005			
Arg	Gly	Arg	Gln	Tyr	Gln	Glu	Leu	Pro	Arg	Cys	Pro	Ala	Pro	Ala	Pro
	1010					1015					1020				
Ser	Leu	Leu	Asn	Ile	Pro	Leu	Ser	Ser	Pro	Gly	Arg	Arg	Ser	Arg	Gly
1025				1030						1035					1040
Asp	Val	Glu	Ser	Arg	Leu	Asp	Ala	Leu	Gln	Arg	Gln	Asp	Asn	Arg	Leu
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Glu	Thr	Arg	Leu	Ser	Ala	Asp	Met	Ala	Thr	Val	Leu	Gln	Leu	Leu	Gln
			1060					1065					1070		
Arg	Gln	Met	Thr	Leu	Val	Pro	Pro	Ala	Tyr	Ser	Ala	Val	Thr	Thr	Pro
		1075					1080					1085			
Gly	Pro	Gly	Pro	Thr	Ser	Thr	Ser	Pro	Leu	Leu	Pro	Val	Gly	Pro	Val
	1090					1095					1100				
Pro	Thr	Leu	Thr	Leu	Asp	Ser	Leu	Ser	Gln	Val	Ser	Gln	Phe	Val	Ala
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Phe	Glu	Glu	Leu	Pro	Ala	Gly	Ala	Pro	Glu	Leu	Pro	Gln	Asp	Gly	Pro
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1140

1145

1150

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Gly Asn Ala Gln Ile Val Asp Trp Pro Ile Val Tyr Ser Asn Asp Gly
 35 40 45

Phe Cys Lys Leu Ser Gly Tyr His Arg Ala Glu Val Met Gln Lys Ser
 50 55 60

Ser Ala Cys Ser Phe Met Tyr Gly Glu Leu Thr Asp Lys Asp Thr Val
 65 70 75 80

Glu Lys Val Arg Gln Thr Phe Glu Asn Tyr Glu Met Asn Ser Phe Glu
 85 90 95

Ile Leu Met Tyr Lys Lys Asn Arg Thr Pro Val Trp Phe Phe Val Lys
 100 105 110

Ile Ala Pro Ile Arg Asn Glu Gln Asp Lys Val Val Leu Phe Leu Cys
 115 120 125

Thr Phe Ser Asp Ile Thr Ala Phe Lys Gln Pro Ile Lys Asp Asp Ser
 130 135 140

Cys Lys Gly Trp Gly Lys Phe Ala Arg Leu Thr Arg Ala Leu Thr Ser
 145 150 155 160

Ser Arg Gly Val Leu Gln Gln Leu Ala Pro Ser Val Gln Lys Gly Glu
 165 170 175

Asn Val His Lys His Ser Arg Leu Ala Glu Val Leu Gln Leu Gly Ser
 180 185 190

Asp Ile Leu Pro Gln Tyr Lys Gln Glu Ala Pro Lys Pro Pro His Ile
 195 200 205

Ile Leu His Tyr Cys Val Phe Lys Thr Thr Thr Trp Asp Trp Ile Ile
 210 215 220

Leu Gln Ile Cys Pro Lys Asp Asn Arg Ala Asp Ile Cys Val His Leu
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 Asn Arg Lys Val Phe Lys Glu His Pro Ala Phe Arg Leu Ala Ser Asp
 545 550 555 560
 Gly Cys Leu Arg Ala Leu Ala Met Glu Phe Gln Thr Val His Cys Ala
 565 570 575
 Pro Gly Asp Leu Ile Tyr His Ala Gly Glu Asp Val Asp Ser Leu Cys
 580 585 590
 Phe Val Val Ser Gly Ser Leu Glu Val Ile Gln Asp Asp Glu Val Val
 595 600 605
 Ala Ile Leu Gly Lys Gly Asp Val Phe Gly Asp Val Phe Trp Lys Glu
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 Ala Thr Leu Ala Gln Ser Cys Ala Asn Val Arg Ala Leu Thr Tyr Cys
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 Asp Leu His Val Ile Lys Arg Asp Ala Leu Gln Lys Val Leu Glu Phe
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 Tyr Thr Ala Phe Ser His Ser Phe Ser Arg Asn Leu Ile Leu Thr Tyr
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 Asn Leu Arg Lys Arg Ile Val Phe Arg Lys Ile Ser Asp Val Lys Arg
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 Glu Glu Glu Glu Arg Met Lys Arg Lys Asn Glu Ala Pro Leu Ile Leu
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 Pro Pro Asp His Pro Val Arg Arg Leu Phe Gln Arg Phe Arg Gln Gln
 705 710 715 720
 Lys Glu Ala Arg Leu Ala Ala Glu Arg Gly Gly Arg Asp Leu Asp Asp
 725 730 735
 Leu Asp Val Glu Lys Gly Asn Ala Leu Thr Asp His Thr Ser Ala Asn
 740 745 750
 His Ser Leu Val Lys Ala Ser Val Val Thr Val Arg Glu Ser Pro Ala
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 Thr Pro Val Ser Phe Gln Ala Ala Ser Thr Ser Thr Val Ser Asp His
 770 775 780
 Ala Lys Leu His Ala Pro Gly Ser Glu Cys Leu Gly Pro Lys Ala Gly
 785 790 795 800
 Gly Gly Asp Pro Ala Lys Arg Lys Gly Trp Ala Arg Phe Lys Asp Ala
 805 810 815
 Cys Gly Lys Gly Glu Asp Trp Asn Lys Val Ser Lys Ala Glu Ser Met
 820 825 830

Leu Ile Leu Thr Phe Tyr Thr Ala Ile Leu Val Pro Tyr Asn Val Ser
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 Phe Lys Thr Arg Gln Asn Asn Val Ala Trp Leu Val Val Asp Ser Ile
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 Val Asp Val Ile Phe Leu Val Asp Ile Val Leu Asn Phe His Thr Thr
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 Phe Val Gly Pro Ala Gly Glu Val Ile Ser Asp Pro Lys Leu Ile Arg
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 Met Asn Tyr Leu Lys Thr Trp Phe Val Ile Asp Leu Leu Ser Cys Leu
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 Pro Tyr Asp Val Ile Asn Ala Phe Glu Asn Val Asp Glu Gly Ile Ser
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 Ser Leu Phe Ser Ser Leu Lys Val Val Arg Leu Leu Arg Leu Gly Arg
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 Val Ala Arg Lys Leu Asp His Tyr Ile Glu Tyr Gly Ala Ala Val Leu
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 Val Leu Leu Val Cys Val Phe Gly Leu Ala Ala His Trp Met Ala Cys
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 Ile Trp Tyr Ser Ile Gly Asp Tyr Glu Ile Phe Asp Glu Asp Thr Lys
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 Thr Ile Arg Asn Asn Ser Trp Leu Tyr Gln Leu Ala Leu Asp Ile Gly
 385 390 395 400
 Thr Pro Tyr Gln Phe Asn Gly Ser Gly Ser Gly Lys Trp Glu Gly Gly
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 Pro Ser Lys Asn Ser Val Tyr Ile Ser Ser Leu Tyr Phe Thr Met Thr
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 Ser Leu Thr Ser Val Gly Phe Gly Asn Ile Ala Pro Ser Thr Asp Ile
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 Glu Lys Ile Phe Ala Val Ala Ile Met Met Ile Gly Ser Leu Leu Tyr
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 Ala Thr Ile Phe Gly Asn Val Thr Thr Ile Phe Gln Gln Met Tyr Ala
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